

1.(AMENDED) Method for processing video pictures for display on a display device having a plurality of luminous elements corresponding to the pixels of a picture, wherein the time duration of a video frame or video field is divided into a plurality of sub-fields during which the luminous elements can be activated for light emission in small pulses corresponding to a sub-field code word which is used for brightness control, wherein to each sub-field a specific sub-field weight is assigned, wherein with motion estimation motion vectors are calculated for pixels in a video picture, and these motion vectors are used to determine corrected sub-field code words for pixels, wherein, a motion vector calculation is being made separately for one or more colour component of a pixel, wherein for the motion vector calculation the sub-field code words are used as data input instead of the video signal samples for a colour component, and wherein the motion vector calculation is done based on the complete sub-field code words or based on code words that are formed from the entries in the sub-field code words of only a sub-group of sub-fields from the plurality of sub-fields and the motion vector defines a trajectory along which corrected sub-field code words will be placed.

3.(AMENDED) Method for processing video pictures for display on a display device having a plurality of luminous elements corresponding to the pixels of a picture, wherein the time duration of a video frame or video field is divided into a plurality of sub-fields during which the luminous elements can be activated for light emission in small pulses corresponding to a sub-field code word which is used for brightness control, wherein to each sub-field a specific sub-field weight is assigned, wherein motion vectors are calculated for pixels in a video picture, and these motion vectors are used to determine corrected sub-field code words for pixels, wherein, a motion vector calculation is being made separately for one or more colour component of a pixel, and for the motion vector calculation the sub-field code words are used as data input instead of the video signal samples for a colour component, and wherein a motion vector calculation is done based on a single bit picture, wherein each pixel of the single bit picture is equal to a dedicated entry of the corresponding sub-field code word for that pixel, namely the entry for a dedicated single sub-field from the plurality of sub-fields.